

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/663,650A
Source: 1Fu0
Date Processed by STIC: 10/29/04

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/663,650A

DATE: 10/29/2004

TIME: 17:14:05

Input Set : A:\Updated Sequence Listing.ST25.txt
 Output Set: N:\CRF4\10292004\J663650A.raw

3 <110> APPLICANT: Kabushiki Kaisha Hayashibara Seibutsu Kagaku Kenkyujo
 4 ARIYASU, Toshio
 5 MATSUMOTO, Shuji
 6 KYONO, Fumiyo
 7 HANAYA, Toshiharu
 8 ARAI, Shigeyuki
 9 IKEDA, Masao
 10 KURIMOTO, Masashi
 12 <120> TITLE OF INVENTION: TREHALOSE RECEPTOR AND METHOD FOR DETECTING TREHALOSE WITH
 THE
 13 SAME
 15 <130> FILE REFERENCE: ARIYASU2
 17 <140> CURRENT APPLICATION NUMBER: 10/663,650A
 18 <141> CURRENT FILING DATE: 2003-09-17
 20 <160> NUMBER OF SEQ ID NOS: 24
 22 <170> SOFTWARE: PatentIn version 3.3
 24 <210> SEQ ID NO: 1
 25 <211> LENGTH: 374
 26 <212> TYPE: PRT
 27 <213> ORGANISM: Homo sapiens
 30 <220> FEATURE:
 31 <221> NAME/KEY: misc_feature
 32 <223> OTHER INFORMATION: GENBANK Accession no. M80632
 34 <400> SEQUENCE: 1
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 37 1 5 10 15
 40 Glu Glu Lys Thr Ala Ala Arg Ile Asp Gln Glu Ile Asn Arg Ile Leu
 41 20 25 30
 44 Leu Glu Gln Lys Lys Gln Glu Arg Glu Glu Leu Lys Leu Leu Leu
 45 35 40 45
 48 Gly Pro Gly Glu Ser Gly Lys Ser Thr Phe Ile Lys Gln Met Arg Ile
 49 50 55 60
 52 Ile His Gly Val Gly Tyr Ser Glu Glu Asp Arg Arg Ala Phe Arg Leu
 53 65 70 75 80
 56 Leu Ile Tyr Gln Asn Ile Phe Val Ser Met Gln Ala Met Ile Asp Ala
 57 85 90 95
 60 Met Asp Arg Leu Gln Ile Pro Phe Ser Arg Pro Asp Ser Lys Gln His
 61 100 105 110
 64 Ala Ser Leu Val Met Thr Gln Asp Pro Tyr Lys Val Ser Thr Phe Glu
 65 115 120 125
 68 Lys Pro Tyr Ala Val Ala Met Gln Tyr Leu Trp Arg Asp Ala Gly Ile
 69 130 135 140
 72 Arg Ala Cys Tyr Glu Arg Arg Glu Phe His Leu Leu Asp Ser Ala
 73 145 150 155 160

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76 Val Tyr Tyr Leu Ser His Leu Glu Arg Ile Ser Glu Asp Ser Tyr Ile
 77 165 170 175
 80 Pro Thr Ala Gln Asp Val Leu Arg Ser Arg Met Pro Thr Thr Gly Ile
 81 180 185 190
 84 Asn Glu Tyr Cys Phe Ser Val Lys Lys Thr Lys Leu Arg Ile Val Asp
 85 195 200 205
 88 Val Gly Gly Gln Arg Ser Glu Arg Arg Lys Trp Ile His Cys Phe Glu
 89 210 215 220
 92 Asn Val Ile Ala Leu Ile Tyr Leu Ala Ser Leu Ser Glu Tyr Asp Gln
 93 225 230 235 240
 96 Cys Leu Glu Glu Asn Asp Gln Glu Asn Arg Met Glu Glu Ser Leu Ala
 97 245 250 255
 100 Leu Phe Ser Thr Ile Leu Glu Leu Pro Trp Phe Lys Ser Thr Ser Val
 101 260 265 270
 104 Ile Leu Phe Leu Asn Lys Thr Asp Ile Leu Glu Asp Lys Ile His Thr
 105 275 280 285
 108 Ser His Leu Ala Thr Tyr Phe Pro Ser Phe Gln Gly Pro Arg Arg Asp
 109 290 295 300
 112 Ala Glu Ala Ala Lys Ser Phe Ile Leu Asp Met Tyr Ala Arg Val Tyr
 113 305 310 315 320
 116 Ala Ser Cys Ala Glu Pro Gln Asp Gly Gly Arg Lys Gly Ser Arg Ala
 117 325 330 335
 120 Arg Arg Phe Phe Ala His Phe Thr Cys Ala Thr Asp Thr Gln Ser Val
 121 340 345 350
 124 Arg Ser Val Phe Lys Asp Val Arg Asp Ser Val Leu Ala Arg Tyr Leu
 125 355 360 365
 128 Asp Glu Ile Asn Leu Leu
 129 370
 132 <210> SEQ ID NO: 2
 133 <211> LENGTH: 374
 134 <212> TYPE: PRT
 135 <213> ORGANISM: Homo sapiens
 138 <220> FEATURE:
 139 <221> NAME/KEY: misc_feature
 140 <223> OTHER INFORMATION: GENBANK Accession no. M63904
 142 <400> SEQUENCE: 2
 144 Met Ala Arg Ser Leu Thr Trp Arg Cys Cys Pro Trp Cys Leu Thr Glu
 145 1 5 10 15
 148 Asp Glu Lys Ala Ala Ala Arg Val Asp Gln Glu Ile Asn Arg Ile Leu
 149 20 25 30
 152 Leu Glu Gln Lys Lys Gln Asp Arg Gly Glu Leu Lys Leu Leu Leu
 153 35 40 45
 156 Gly Pro Gly Glu Ser Gly Lys Ser Thr Phe Ile Lys Gln Met Arg Ile
 157 50 55 60
 160 Ile His Gly Ala Gly Tyr Ser Glu Glu Arg Lys Gly Phe Arg Pro
 161 65 70 75 80
 164 Leu Val Tyr Gln Asn Ile Phe Val Ser Met Arg Ala Met Ile Glu Ala
 165 85 90 95
 168 Met Glu Arg Leu Gln Ile Pro Phe Ser Arg Pro Glu Ser Lys His His

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169 100 105 110
 172 Ala Ser Leu Val Met Ser Gln Asp Pro Tyr Lys Val Thr Thr Phe Glu
 173 115 120 125
 176 Lys Arg Tyr Ala Ala Ala Met Gln Trp Leu Trp Arg Asp Ala Gly Ile
 177 130 135 140
 180 Arg Ala Cys Tyr Glu Arg Arg Glu Phe His Leu Leu Asp Ser Ala
 181 145 150 155 160
 184 Val Tyr Tyr Leu Ser His Leu Glu Arg Ile Thr Glu Glu Gly Tyr Val
 185 165 170 175
 188 Pro Thr Ala Gln Asp Val Leu Arg Ser Arg Met Pro Thr Thr Gly Ile
 189 180 185 190
 192 Asn Glu Tyr Cys Phe Ser Val Gln Lys Thr Asn Leu Arg Ile Val Asp
 193 195 200 205
 196 Val Gly Gly Gln Lys Ser Glu Arg Lys Lys Trp Ile His Cys Phe Glu
 197 210 215 220
 200 Asn Val Ile Ala Leu Ile Tyr Leu Ala Ser Leu Ser Glu Tyr Asp Gln
 201 225 230 235 240
 204 Cys Leu Glu Glu Asn Asn Gln Glu Asn Arg Met Lys Glu Ser Leu Ala
 205 245 250 255
 208 Leu Phe Gly Thr Ile Leu Glu Leu Pro Trp Phe Lys Ser Thr Ser Val
 209 260 265 270
 212 Ile Leu Phe Leu Asn Lys Thr Asp Ile Leu Glu Glu Lys Ile Pro Thr
 213 275 280 285
 216 Ser His Leu Ala Thr Tyr Phe Pro Ser Phe Gln Gly Pro Lys Gln Asp
 217 290 295 300
 220 Ala Glu Ala Ala Lys Arg Phe Ile Leu Asp Met Tyr Thr Arg Met Tyr
 221 305 310 315 320
 224 Thr Gly Cys Val Asp Gly Pro Glu Gly Ser Lys Lys Gly Ala Arg Ser
 225 325 330 335
 228 Arg Arg Leu Phe Ser His Tyr Thr Cys Ala Thr Asp Thr Gln Asn Ile
 229 340 345 350
 232 Arg Lys Val Phe Lys Asp Val Arg Asp Ser Val Leu Ala Arg Tyr Leu
 233 355 360 365
 236 Asp Glu Ile Asn Leu Leu
 237 370
 240 <210> SEQ ID NO: 3
 241 <211> LENGTH: 355
 242 <212> TYPE: PRT
 243 <213> ORGANISM: Homo sapiens
 246 <220> FEATURE:
 247 <221> NAME/KEY: misc_feature
 248 <223> OTHER INFORMATION: GENBANK Accession no. NM_002073
 250 <400> SEQUENCE: 3
 252 Met Gly Cys Arg Gln Ser Ser Glu Glu Lys Glu Ala Ala Arg Arg Ser
 253 1 5 10 15
 256 Arg Arg Ile Asp Arg His Leu Arg Ser Glu Ser Gln Arg Gln Arg Arg
 257 20 25 30
 260 Glu Ile Lys Leu Leu Leu Leu Gly Thr Ser Asn Ser Gly Lys Ser Thr
 261 35 40 45

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Input Set : A:\Updated Sequence Listing.ST25.txt
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264 Ile Val Lys Gln Met Lys Ile Ile His Ser Gly Gly Phe Asn Leu Glu
 265 50 55 60
 268 Ala Cys Lys Glu Tyr Lys Pro Leu Ile Ile Tyr Asn Ala Ile Asp Ser
 269 65 70 75 80
 272 Leu Thr Arg Ile Ile Arg Ala Leu Ala Ala Leu Arg Ile Asp Phe His
 273 85 90 95
 276 Asn Pro Asp Arg Ala Tyr Asp Ala Val Gln Leu Phe Ala Leu Thr Gly
 277 100 105 110
 280 Pro Ala Glu Ser Lys Gly Glu Ile Thr Pro Glu Leu Leu Gly Val Met
 281 115 120 125
 284 Arg Arg Leu Trp Ala Asp Pro Gly Ala Gln Ala Cys Phe Ser Arg Ser
 285 130 135 140
 288 Ser Glu Tyr His Leu Glu Asp Asn Ala Ala Tyr Tyr Leu Asn Asp Leu
 289 145 150 155 160
 292 Glu Arg Ile Ala Ala Ala Asp Tyr Ile Pro Thr Val Glu Asp Ile Leu
 293 165 170 175
 296 Arg Ser Arg Asp Met Thr Thr Gly Ile Val Glu Asn Lys Phe Thr Phe
 297 180 185 190
 300 Lys Glu Leu Thr Phe Lys Met Val Asp Val Gly Gly Gln Arg Ser Glu
 301 195 200 205
 304 Arg Lys Lys Trp Ile His Cys Phe Glu Gly Val Thr Ala Ile Ile Phe
 305 210 215 220
 308 Cys Val Glu Leu Ser Gly Tyr Asp Leu Lys Leu Tyr Glu Asp Asn Gln
 309 225 230 235 240
 312 Thr Ser Arg Met Ala Glu Ser Leu Arg Leu Phe Asp Ser Ile Cys Asn
 313 245 250 255
 316 Asn Asn Trp Phe Ile Asn Thr Ser Leu Ile Leu Phe Leu Asn Lys Lys
 317 260 265 270
 320 Asp Leu Leu Ala Glu Lys Ile Arg Arg Ile Pro Leu Thr Ile Cys Phe
 321 275 280 285
 324 Pro Glu Tyr Lys Gly Gln Asn Thr Tyr Glu Glu Ala Ala Val Tyr Ile
 325 290 295 300
 328 Gln Arg Gln Phe Glu Asp Leu Asn Arg Asn Lys Glu Thr Lys Glu Ile
 329 305 310 315 320
 332 Tyr Ser His Phe Thr Cys Ala Thr Asp Thr Ser Asn Ile Gln Phe Val
 333 325 330 335
 336 Phe Asp Ala Val Thr Asp Val Ile Ile Gln Asn Asn Leu Lys Tyr Ile
 337 340 345 350
 340 Gly Leu Cys
 341 355
 344 <210> SEQ ID NO: 4
 345 <211> LENGTH: 374
 346 <212> TYPE: PRT
 347 <213> ORGANISM: Artificial
 349 <220> FEATURE:
 350 <223> OTHER INFORMATION: Synthetic
 352 <300> PUBLICATION INFORMATION:
 353 <301> AUTHORS: SEJAL M. MODY, MAURICE K. C. HO, SUSHMA A. JOSHI, and YUNG H.
 354 WONG

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Input Set : A:\Updated Sequence Listing.ST25.txt
Output Set: N:\CRF4\10292004\J663650A.raw

355 <302> TITLE: Incorporation of Galphaz-Specific Sequence at the Carboxyl
356 Terminus Increases the Promiscuity of Galphai6 toward Gi-Coupled
357 Receptors
358 <303> JOURNAL: The American Society for Pharmacology and Experimental
359 Therapeutics
360 <304> VOLUME: 57
361 <306> PAGES: 13-23
362 <307> DATE: 2000
364 <400> SEQUENCE: 4
366 Met Ala Arg Ser Leu Thr Trp Arg Cys Cys Pro Trp Cys Leu Thr Glu
367 1 5 10 15
370 Asp Glu Lys Ala Ala Ala Arg Val Asp Gln Glu Ile Asn Arg Ile Leu
371 20 25 30
374 Leu Glu Gln Lys Lys Gln Asp Arg Gly Glu Leu Lys Leu Leu Leu
375 35 40 45
378 Gly Pro Gly Glu Ser Gly Lys Ser Thr Phe Ile Lys Gln Met Arg Ile
379 50 55 60
382 Ile His Gly Ala Gly Tyr Ser Glu Glu Glu Arg Lys Gly Phe Arg Pro
383 65 70 75 80
386 Leu Val Tyr Gln Asn Ile Phe Val Ser Met Arg Ala Met Ile Glu Ala
387 85 90 95
390 Met Glu Arg Leu Gln Ile Pro Phe Ser Arg Pro Glu Ser Lys His His
391 100 105 110
394 Ala Ser Leu Val Met Ser Gln Asp Pro Tyr Lys Val Thr Thr Phe Glu
395 115 120 125
398 Lys Arg Tyr Ala Ala Ala Met Gln Trp Leu Trp Arg Asp Ala Gly Ile
399 130 135 140
402 Arg Ala Cys Tyr Glu Arg Arg Glu Phe His Leu Leu Asp Ser Ala
403 145 150 155 160
406 Val Tyr Tyr Leu Ser His Leu Glu Arg Ile Thr Glu Glu Gly Tyr Val
407 165 170 175
410 Pro Thr Ala Gln Asp Val Leu Arg Ser Arg Met Pro Thr Thr Gly Ile
411 180 185 190
414 Asn Glu Tyr Cys Phe Ser Val Gln Lys Thr Asn Leu Arg Ile Val Asp
415 195 200 205
418 Val Gly Gly Gln Lys Ser Glu Arg Lys Lys Trp Ile His Cys Phe Glu
419 210 215 220
422 Asn Val Ile Ala Leu Ile Tyr Leu Ala Ser Leu Ser Glu Tyr Asp Gln
423 225 230 235 240
426 Cys Leu Glu Glu Asn Asn Gln Glu Asn Arg Met Lys Glu Ser Leu Ala
427 245 250 255
430 Leu Phe Gly Thr Ile Leu Glu Leu Pro Trp Phe Lys Ser Thr Ser Val
431 260 265 270
434 Ile Leu Phe Leu Asn Lys Thr Asp Ile Leu Glu Glu Lys Ile Pro Thr
435 275 280 285
438 Ser His Leu Ala Thr Tyr Phe Pro Ser Phe Gln Gly Pro Lys Gln Asp
439 290 295 300
442 Ala Glu Ala Ala Lys Arg Phe Ile Leu Asp Met Tyr Thr Arg Met Tyr
443 305 310 315 320

RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/10/663,650A

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Input Set : A:\Updated Sequence Listing.ST25.txt
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Invalid <213> Response:

Use of "Artificial" only as "<213> Organism" response is incomplete,
per 1.823(b) of New Sequence Rules. Valid response is Artificial Sequence.

Seq#:4,7,8,11,12,13,14,15,19,20,21,22,23,24

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/663,650A

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TIME: 17:14:06

Input Set : A:\Updated Sequence Listing.ST25.txt
Output Set: N:\CRF4\10292004\J663650A.raw